

**Experiment Number:** 20712 - 03

**Test Type:** Chronic PN

**Route:** DOSED FEED

**Species/Strain:** RATS/HSD

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**

Tris(Chloropropyl)phosphate

**CAS Number:** 13674-84-5

**Date Report Requested:** 09/18/2020

**Time Report Requested:** 11:04:53

**First Dose M/F:** 12/12/11 / 12/13/11

**Lab:** BAT

Final 3\_Rats

**NTP Study Number:** C20712  
**Lock Date:** 04/09/2018  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** NONE

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
---------------------------------	-------------	----------------	----------------	-----------------	-----------------

**Disposition Summary**

<b>Animals Initially In Study</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>
<b>Early Deaths</b>					
<b>Moribund Sacrifice</b>	<b>15</b>	<b>8</b>	<b>8</b>	<b>5</b>	<b>8</b>
<b>Natural Death</b>	<b>10</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>11</b>
<b>Survivors</b>					
<b>Terminal Sacrifice</b>	<b>25</b>	<b>34</b>	<b>34</b>	<b>37</b>	<b>31</b>
<b>Animals Examined Microscopically</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>

## ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(49)	(50)	(50)	(48)	(49)
Erosion	1 (2%)		1 (2%)		
Infiltration Cellular, Lymphocyte					1 (2%)
Inflammation, Suppurative	1 (2%)				
Inflammation, Acute		1 (2%)	1 (2%)		
Inflammation, Chronic Active	1 (2%)				
Mineral	1 (2%)	2 (4%)			
Polyarteritis Nodosa		2 (4%)		1 (2%)	
Lymphoid Tissue, Hyperplasia		1 (2%)			
Intestine Large, Colon	(49)	(50)	(50)	(48)	(50)
Diverticulum			1 (2%)		
Parasite Metazoan	3 (6%)	1 (2%)	1 (2%)	2 (4%)	1 (2%)
Lymphoid Tissue, Hyperplasia	2 (4%)	1 (2%)	1 (2%)	1 (2%)	
Intestine Large, Rectum	(50)	(50)	(50)	(50)	(50)
Parasite Metazoan	7 (14%)	5 (10%)	6 (12%)	7 (14%)	2 (4%)
Polyarteritis Nodosa					1 (2%)
Intestine Small, Duodenum	(50)	(49)	(50)	(49)	(50)
Polyarteritis Nodosa	1 (2%)				1 (2%)
Intestine Small, Ileum	(49)	(50)	(50)	(48)	(49)
Intestine Small, Jejunum	(48)	(49)	(49)	(48)	(50)
Hyperplasia	2 (4%)				
Liver	(50)	(50)	(50)	(50)	(49)
Angiectasis					1 (2%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Basophilic Focus	1 (2%)	1 (2%)	2 (4%)	9 (18%)	11 (22%)
Clear Cell Focus	26 (52%)	31 (62%)	33 (66%)	36 (72%)	35 (71%)
Degeneration, Cystic		1 (2%)		1 (2%)	2 (4%)
Eosinophilic Focus	3 (6%)	5 (10%)	3 (6%)	5 (10%)	13 (27%)
Fatty Change	2 (4%)		1 (2%)	1 (2%)	
Hepatodiaphragmatic Nodule			1 (2%)	2 (4%)	1 (2%)
Inclusion Body Intracytoplasmic					1 (2%)
Inflammation, Focal				1 (2%)	
Mixed Cell Focus	1 (2%)	2 (4%)	4 (8%)	1 (2%)	8 (16%)
Necrosis	3 (6%)	4 (8%)	5 (10%)		1 (2%)
Pigment				1 (2%)	22 (45%)
Polyarteritis Nodosa		1 (2%)			
Regeneration					1 (2%)
Thrombus					1 (2%)
Bile Duct, Cyst	3 (6%)		3 (6%)	6 (12%)	6 (12%)
Bile Duct, Dilation	1 (2%)	1 (2%)	1 (2%)		1 (2%)
Bile Duct, Hyperplasia	12 (24%)	23 (46%)	17 (34%)	19 (38%)	29 (59%)
Hepatocyte, Cytoplasmic Alteration			1 (2%)	1 (2%)	2 (4%)
Hepatocyte, Pigment				2 (4%)	
Oval Cell, Hyperplasia			1 (2%)		
Mesentery	(4)	(0)	(3)	(0)	(1)
Hemorrhage	1 (25%)				
Polyarteritis Nodosa	1 (25%)		1 (33%)		
Fat, Necrosis	1 (25%)		1 (33%)		
Pancreas	(50)	(50)	(50)	(50)	(50)
Cyst			1 (2%)		
Inflammation, Chronic Active		1 (2%)			
Polyarteritis Nodosa	5 (10%)	4 (8%)	1 (2%)		
Acinus, Atrophy	5 (10%)	2 (4%)	3 (6%)	3 (6%)	
Acinus, Cytoplasmic Alteration					1 (2%)
Acinus, Hyperplasia	8 (16%)	12 (24%)	8 (16%)	11 (22%)	12 (24%)
Acinus, Inflammation, Chronic Active			1 (2%)		
Duct, Degeneration					1 (2%)
Salivary Glands	(50)	(50)	(50)	(50)	(49)
Inflammation, Suppurative			1 (2%)		1 (2%)
Stomach, Forestomach	(50)	(50)	(50)	(50)	(50)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Dysplasia			1 (2%)		
Erosion		1 (2%)			
Inflammation, Granulomatous		1 (2%)			
Inflammation, Acute	1 (2%)		2 (4%)		
Inflammation, Chronic	1 (2%)				
Inflammation, Chronic Active	4 (8%)	3 (6%)	3 (6%)	2 (4%)	2 (4%)
Necrosis					1 (2%)
Ulcer	3 (6%)		1 (2%)	1 (2%)	1 (2%)
Epithelium, Hyperplasia	6 (12%)	2 (4%)	5 (10%)	2 (4%)	2 (4%)
Stomach, Glandular	(50)	(50)	(50)	(50)	(50)
Erosion	1 (2%)				
Inflammation, Suppurative	1 (2%)				
Inflammation, Acute			1 (2%)		
Inflammation, Chronic Active	1 (2%)			1 (2%)	1 (2%)
Mineral	7 (14%)	5 (10%)	3 (6%)	2 (4%)	5 (10%)
Polyarteritis Nodosa		1 (2%)			

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(50)	(50)	(50)	(50)
Aneurysm			1 (2%)		
Degeneration	1 (2%)				
Degeneration, Hyaline	2 (4%)				
Inflammation, Chronic Active	1 (2%)		2 (4%)	2 (4%)	
Mineral	6 (12%)	8 (16%)	5 (10%)	2 (4%)	2 (4%)
Necrosis, Fibrinoid	1 (2%)				
Carotid Artery, Polyarteritis Nodosa	1 (2%)				
Heart	(50)	(50)	(50)	(50)	(50)
Cardiomyopathy	30 (60%)	30 (60%)	27 (54%)	26 (52%)	27 (54%)
Inflammation, Acute	1 (2%)				
Inflammation, Chronic Active				1 (2%)	
Mineral	3 (6%)	3 (6%)	2 (4%)		
Polyarteritis Nodosa		2 (4%)	1 (2%)	2 (4%)	
Atrium, Thrombus				1 (2%)	
Endocardium, Hyperplasia		1 (2%)			2 (4%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Pericardium, Hyperplasia					1 (2%)
Valve, Fibrosis				1 (2%)	1 (2%)
Ventricle, Dilatation					1 (2%)
<b>ENDOCRINE SYSTEM</b>					
Adrenal Cortex	(50)	(50)	(50)	(50)	(50)
Angiectasis		1 (2%)			
Atrophy			1 (2%)		
Degeneration, Cystic	4 (8%)	7 (14%)	4 (8%)	5 (10%)	3 (6%)
Hyperplasia, Focal	5 (10%)	12 (24%)	11 (22%)	8 (16%)	8 (16%)
Hypertrophy, Focal	15 (30%)	14 (28%)	19 (38%)	11 (22%)	13 (26%)
Metaplasia, Osseous				1 (2%)	
Necrosis	1 (2%)	1 (2%)	1 (2%)		1 (2%)
Thrombus			1 (2%)	1 (2%)	
Adrenal Medulla	(50)	(50)	(50)	(50)	(50)
Hyperplasia, Focal	15 (30%)	25 (50%)	19 (38%)	14 (28%)	7 (14%)
Necrosis	1 (2%)				
Islets, Pancreatic	(50)	(50)	(50)	(50)	(50)
Hyperplasia	1 (2%)	5 (10%)	3 (6%)	3 (6%)	2 (4%)
Parathyroid Gland	(49)	(46)	(46)	(44)	(45)
Hyperplasia	5 (10%)	4 (9%)	2 (4%)	5 (11%)	1 (2%)
Infiltration Cellular, Lymphocyte	1 (2%)				
Pituitary Gland	(50)	(50)	(50)	(50)	(49)
Pars Distalis, Hyperplasia	18 (36%)	17 (34%)	22 (44%)	18 (36%)	12 (24%)
Rathke's Cleft, Hyperplasia	1 (2%)				
Thyroid Gland	(50)	(50)	(50)	(50)	(49)
Infiltration Cellular, Lymphocyte	1 (2%)				
Polyarteritis Nodosa			1 (2%)		
C-cell, Hyperplasia	12 (24%)	6 (12%)	5 (10%)	9 (18%)	12 (24%)
Follicle, Hyperplasia				1 (2%)	

GENERAL BODY SYSTEM

None

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

## P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
<b>GENITAL SYSTEM</b>					
Coagulating Gland	(2)	(1)	(0)	(0)	(0)
Hyperplasia	1 (50%)				
Inflammation, Suppurative		1 (100%)			
Inflammation, Chronic Active	1 (50%)				
Epididymis	(50)	(50)	(50)	(50)	(50)
Polyarteritis Nodosa			1 (2%)	1 (2%)	1 (2%)
Epithelium, Degeneration	1 (2%)				1 (2%)
Penis	(1)	(0)	(0)	(0)	(0)
Preputial Gland	(50)	(50)	(50)	(50)	(50)
Hyperplasia	1 (2%)				
Inflammation, Suppurative	2 (4%)				1 (2%)
Duct, Hyperplasia		1 (2%)			
Prostate	(50)	(50)	(50)	(50)	(50)
Inflammation, Suppurative		1 (2%)	1 (2%)		1 (2%)
Inflammation, Chronic Active	4 (8%)	3 (6%)	5 (10%)	8 (16%)	5 (10%)
Polyarteritis Nodosa			1 (2%)	1 (2%)	1 (2%)
Epithelium, Hyperplasia			5 (10%)		3 (6%)
Seminal Vesicle	(50)	(50)	(50)	(50)	(50)
Atrophy		1 (2%)			
Inflammation, Chronic Active		1 (2%)	1 (2%)	1 (2%)	
Polyarteritis Nodosa				1 (2%)	
Testis	(50)	(50)	(50)	(50)	(50)
Mineral		1 (2%)	2 (4%)	1 (2%)	1 (2%)
Polyarteritis Nodosa	13 (26%)	13 (26%)	9 (18%)	9 (18%)	3 (6%)
Germinal Epithelium, Degeneration	21 (42%)	15 (30%)	14 (28%)	13 (26%)	8 (16%)
Germinal Epithelium, Polyarteritis Nodosa	1 (2%)	1 (2%)			
Interstitial Cell, Hyperplasia	3 (6%)	1 (2%)		2 (4%)	3 (6%)

**HEMATOPOIETIC SYSTEM**

Bone Marrow	(50)	(50)	(50)	(50)	(50)
Hemorrhage	6 (12%)	6 (12%)	2 (4%)	6 (12%)	1 (2%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

## P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Hypercellularity	21 (42%)	15 (30%)	15 (30%)	12 (24%)	16 (32%)
Hypocellularity	1 (2%)				
Necrosis		1 (2%)		1 (2%)	1 (2%)
Lymph Node	(2)	(4)	(2)	(1)	(4)
Mediastinal, Infiltration Cellular, Histiocyte			1 (50%)		
Mediastinal, Pigment			1 (50%)		
Pancreatic, Hemorrhage		1 (25%)	1 (50%)		
Pancreatic, Hyperplasia		1 (25%)			
Pancreatic, Infiltration Cellular, Histiocyte			1 (50%)		
Renal, Infiltration Cellular, Histiocyte		1 (25%)			
Lymph Node, Mandibular	(50)	(50)	(49)	(50)	(50)
Atrophy	2 (4%)			1 (2%)	
Hyperplasia, Lymphocyte		1 (2%)			
Hyperplasia, Plasma Cell				1 (2%)	
Inflammation, Suppurative				1 (2%)	
Lymphatic Sinus, Dilation		2 (4%)			
Lymph Node, Mesenteric	(50)	(49)	(49)	(49)	(50)
Atrophy	2 (4%)				
Hyperplasia, Lymphocyte		2 (4%)	1 (2%)		
Spleen	(50)	(50)	(50)	(50)	(49)
Extramedullary Hematopoiesis	39 (78%)	38 (76%)	41 (82%)	43 (86%)	43 (88%)
Hemorrhage		1 (2%)	1 (2%)		2 (4%)
Pigment	46 (92%)	45 (90%)	42 (84%)	44 (88%)	42 (86%)
White Pulp, Atrophy	15 (30%)	10 (20%)	13 (26%)	9 (18%)	8 (16%)
Thymus	(49)	(45)	(47)	(50)	(48)
Atrophy	44 (90%)	43 (96%)	45 (96%)	47 (94%)	43 (90%)
Ectopic Tissue, Parathyroid Gland	2 (4%)				
Hyperplasia, Lymphocyte	2 (4%)				1 (2%)
Polyarteritis Nodosa	1 (2%)			2 (4%)	1 (2%)

## INTEGUMENTARY SYSTEM

Mammary Gland	(45)	(50)	(50)	(50)	(49)
Hyperplasia		2 (4%)		3 (6%)	1 (2%)
Skin	(50)	(50)	(50)	(50)	(50)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Cyst Epithelial Inclusion		3 (6%)	1 (2%)	1 (2%)	1 (2%)
Inflammation, Suppurative		1 (2%)			
Inflammation, Chronic Active			1 (2%)		
Ulcer			1 (2%)		
Epithelium, Hyperplasia					1 (2%)
<b>MUSCULOSKELETAL SYSTEM</b>					
Bone	(50)	(50)	(50)	(50)	(50)
Fracture, Chronic	1 (2%)				
Increased Bone					2 (4%)
Cartilage, Vertebra, Hyperplasia	1 (2%)				
Joint, Degeneration	1 (2%)				
Skeletal Muscle	(3)	(0)	(3)	(1)	(4)
Degeneration	2 (67%)		1 (33%)		
Hemorrhage					1 (25%)
Inflammation, Chronic Active					1 (25%)
Mineral	1 (33%)				
<b>NERVOUS SYSTEM</b>					
Brain	(50)	(50)	(50)	(50)	(50)
Gliosis	1 (2%)	2 (4%)		1 (2%)	2 (4%)
Hemorrhage	2 (4%)	2 (4%)	1 (2%)		2 (4%)
Infiltration Cellular, Histiocyte			1 (2%)		
Necrosis	4 (8%)	1 (2%)	3 (6%)	1 (2%)	3 (6%)
Thrombus		1 (2%)			
Brain Trigeminal Ganglion	(1)	(0)	(0)	(0)	(0)
Nerve Trigeminal	(2)	(2)	(1)	(1)	(1)
Peripheral Nerve	(3)	(2)	(4)	(1)	(4)
Axon, Sciatic, Degeneration		1 (50%)	2 (50%)		
Axon, Tibial, Degeneration	1 (33%)	1 (50%)	2 (50%)		
Ganglion, Infiltration Cellular, Histiocyte					1 (25%)
Ganglion, Vacuolation, Cytoplasmic			1 (25%)		1 (25%)
Spinal, Hyperplasia	1 (33%)				

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

## P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Trigeminal, Degeneration			1 (25%)		
Spinal Cord	(2)	(2)	(2)	(1)	(1)
Hemorrhage		1 (50%)			

## RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(50)	(50)
Foreign Body	1 (2%)				
Hemorrhage				1 (2%)	
Infiltration Cellular, Histiocyte	31 (62%)	36 (72%)	32 (64%)	37 (74%)	40 (80%)
Inflammation, Granulomatous, Focal	7 (14%)	14 (28%)	11 (22%)	19 (38%)	24 (48%)
Inflammation, Acute	1 (2%)	3 (6%)	1 (2%)		
Inflammation, Chronic Active	3 (6%)		1 (2%)	2 (4%)	
Mineral	1 (2%)	2 (4%)			
Alveolar Epithelium, Hyperplasia	2 (4%)	6 (12%)	3 (6%)	1 (2%)	2 (4%)
Bronchiole, Cyst	1 (2%)				
Bronchiole, Fibrosis	1 (2%)				
Nose	(50)	(50)	(50)	(50)	(50)
Foreign Body	2 (4%)	2 (4%)	2 (4%)		1 (2%)
Fungus			1 (2%)		
Inflammation, Suppurative	1 (2%)	2 (4%)	2 (4%)		2 (4%)
Inflammation, Acute	6 (12%)	6 (12%)	4 (8%)	5 (10%)	3 (6%)
Inflammation, Chronic Active			1 (2%)		1 (2%)
Polyarteritis Nodosa		1 (2%)			
Epithelium, Accumulation, Hyaline Droplet	37 (74%)	42 (84%)	45 (90%)	43 (86%)	45 (90%)
Olfactory Epithelium, Metaplasia, Respiratory	1 (2%)	1 (2%)	1 (2%)		
Olfactory Epithelium, Necrosis	1 (2%)				1 (2%)
Respiratory Epithelium, Dilation, Glands	1 (2%)				
Respiratory Epithelium, Hyperplasia	1 (2%)	1 (2%)	1 (2%)	1 (2%)	3 (6%)
Respiratory Epithelium, Metaplasia, Squamous			2 (4%)		
Respiratory Epithelium, Necrosis	2 (4%)				
Squamous Epithelium, Metaplasia, Respiratory			1 (2%)		
Trachea	(50)	(50)	(50)	(50)	(50)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
<b>SPECIAL SENSES SYSTEM</b>					
Eye	(50)	(50)	(50)	(50)	(50)
Choroid, Hyperplasia	1 (2%)				
Cornea, Inflammation, Suppurative	1 (2%)				
Cornea, Inflammation, Acute	4 (8%)	1 (2%)	3 (6%)		
Lens, Cataract			1 (2%)		
Retina, Degeneration		2 (4%)	1 (2%)	1 (2%)	1 (2%)
Harderian Gland	(50)	(50)	(50)	(50)	(50)
Atrophy					1 (2%)
Hyperplasia				1 (2%)	
Polyarteritis Nodosa		1 (2%)			1 (2%)
<b>URINARY SYSTEM</b>					
Kidney	(50)	(50)	(50)	(50)	(50)
Calculus Micro Observation Only	1 (2%)				
Hemorrhage			1 (2%)		
Infarct	2 (4%)	4 (8%)	4 (8%)	2 (4%)	1 (2%)
Nephropathy, Chronic Progressive	49 (98%)	50 (100%)	49 (98%)	48 (96%)	48 (96%)
Polyarteritis Nodosa				1 (2%)	
Papilla, Necrosis		1 (2%)			
Pelvis, Dilation	1 (2%)			1 (2%)	
Pelvis, Inflammation, Suppurative				1 (2%)	
Pelvis, Inflammation, Chronic Active		1 (2%)			
Renal Tubule, Accumulation, Hyaline Droplet	1 (2%)	2 (4%)	2 (4%)		2 (4%)
Renal Tubule, Cyst		1 (2%)	1 (2%)	1 (2%)	1 (2%)
Renal Tubule, Hyperplasia		1 (2%)	2 (4%)		2 (4%)
Renal Tubule, Hyperplasia, Atypical			1 (2%)		
Renal Tubule, Hyperplasia, Oncocytic		1 (2%)			
Ureter	(0)	(0)	(0)	(1)	(0)
Degeneration				1 (100%)	
Urinary Bladder	(50)	(50)	(50)	(50)	(50)
Inflammation, Chronic Active		1 (2%)		1 (2%)	1 (2%)
Polyarteritis Nodosa		1 (2%)			

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

---

Harlan Sprague Dawley RATS MALE	0 ppm males	2500 ppm males	5000 ppm males	10000 ppm males	20000 ppm males
Urothelium, Hyperplasia		1 (2%)			
Urothelium, Infiltration Cellular, Mast Cell	1 (2%)				

---

\*\*\* END OF MALE \*\*\*

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

## P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female
-----------------------------------	---------------	------------------	------------------	------------------	------------------

**Disposition Summary**

<b>Animals Initially In Study</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>
<b>Early Deaths</b>					
<b>Moribund Sacrifice</b>	<b>15</b>	<b>10</b>	<b>8</b>	<b>7</b>	<b>6</b>
<b>Natural Death</b>	<b>13</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>11</b>
<b>Survivors</b>					
<b>Moribund Sacrifice</b>		<b>1</b>			
<b>Natural Death</b>			<b>1</b>	<b>1</b>	
<b>Terminal Sacrifice</b>	<b>22</b>	<b>31</b>	<b>33</b>	<b>34</b>	<b>33</b>
<b>Animals Examined Microscopically</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>

## ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)	(50)
Dilation				1 (2%)	
Inflammation, Suppurative					1 (2%)
Necrosis					1 (2%)
Intestine Large, Cecum	(49)	(49)	(49)	(48)	(49)
Intestine Large, Colon	(49)	(50)	(49)	(49)	(50)
Erosion			1 (2%)		
Inflammation, Chronic Active			1 (2%)		
Parasite Metazoan	2 (4%)	1 (2%)		2 (4%)	
Lymphoid Tissue, Hyperplasia				1 (2%)	
Intestine Large, Rectum	(50)	(50)	(50)	(49)	(50)
Mineral					1 (2%)
Parasite Metazoan	4 (8%)	7 (14%)	8 (16%)	6 (12%)	3 (6%)
Intestine Small, Duodenum	(49)	(49)	(50)	(49)	(50)
Intestine Small, Ileum	(49)	(49)	(49)	(48)	(50)
Intestine Small, Jejunum	(49)	(49)	(49)	(49)	(50)
Liver	(50)	(50)	(50)	(50)	(50)
Angiectasis	1 (2%)		2 (4%)		
Basophilic Focus	5 (10%)	7 (14%)	9 (18%)	8 (16%)	10 (20%)
Clear Cell Focus	11 (22%)	14 (28%)	10 (20%)	9 (18%)	13 (26%)
Degeneration, Cystic	1 (2%)		1 (2%)		
Eosinophilic Focus	5 (10%)	2 (4%)	13 (26%)	18 (36%)	25 (50%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female
Extramedullary Hematopoiesis		1 (2%)		1 (2%)	
Hepatodiaphragmatic Nodule		2 (4%)	1 (2%)		1 (2%)
Inflammation, Focal	1 (2%)				
Mixed Cell Focus	2 (4%)		1 (2%)	1 (2%)	7 (14%)
Necrosis	6 (12%)	2 (4%)	3 (6%)	5 (10%)	3 (6%)
Pigment				3 (6%)	23 (46%)
Thrombus				1 (2%)	
Bile Duct, Cyst	1 (2%)	6 (12%)	12 (24%)	19 (38%)	21 (42%)
Bile Duct, Dilation		1 (2%)		1 (2%)	
Bile Duct, Hyperplasia	7 (14%)	21 (42%)	24 (48%)	29 (58%)	11 (22%)
Hepatocyte, Cytoplasmic Alteration	2 (4%)			3 (6%)	4 (8%)
Hepatocyte, Hypertrophy	1 (2%)	1 (2%)		2 (4%)	1 (2%)
Hepatocyte, Regeneration			1 (2%)		1 (2%)
Oval Cell, Hyperplasia				1 (2%)	
Mesentery	(3)	(3)	(1)	(1)	(4)
Hemorrhage	1 (33%)				
Inflammation, Chronic Active		1 (33%)			
Necrosis	1 (33%)				
Fat, Necrosis			1 (100%)		
Pancreas	(49)	(50)	(50)	(50)	(50)
Inflammation, Chronic Active			2 (4%)		
Acinus, Atrophy	2 (4%)	5 (10%)	3 (6%)	1 (2%)	
Salivary Glands	(50)	(50)	(49)	(50)	(49)
Hyperplasia					1 (2%)
Inflammation, Chronic Active			1 (2%)		
Necrosis				1 (2%)	
Stomach, Forestomach	(50)	(50)	(50)	(50)	(50)
Foreign Body				1 (2%)	
Inflammation, Chronic Active	1 (2%)	1 (2%)	1 (2%)	3 (6%)	1 (2%)
Ulcer		1 (2%)		1 (2%)	
Epithelium, Hyperplasia	1 (2%)	1 (2%)	1 (2%)	3 (6%)	1 (2%)
Stomach, Glandular	(50)	(50)	(50)	(50)	(50)
Inflammation, Chronic Active					1 (2%)
Mineral	2 (4%)	3 (6%)	1 (2%)		2 (4%)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

## P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female
<b>CARDIOVASCULAR SYSTEM</b>					
Blood Vessel	(50)	(50)	(50)	(50)	(50)
Aneurysm			1 (2%)		
Inflammation, Chronic Active	1 (2%)		2 (4%)	1 (2%)	
Mineral	1 (2%)				
Thrombus			1 (2%)		
Heart	(50)	(50)	(50)	(50)	(50)
Cardiomyopathy	7 (14%)	8 (16%)	4 (8%)	7 (14%)	6 (12%)
Mineral					1 (2%)
<b>ENDOCRINE SYSTEM</b>					
Adrenal Cortex	(50)	(50)	(50)	(50)	(50)
Angiectasis	5 (10%)	6 (12%)		1 (2%)	2 (4%)
Degeneration, Cystic	8 (16%)	8 (16%)	4 (8%)	10 (20%)	5 (10%)
Fibrosis	1 (2%)				
Hemorrhage			1 (2%)		
Hyperplasia, Focal	2 (4%)	7 (14%)	2 (4%)	3 (6%)	2 (4%)
Hypertrophy, Focal	5 (10%)	3 (6%)	6 (12%)	3 (6%)	9 (18%)
Inflammation, Chronic				1 (2%)	
Necrosis	1 (2%)		1 (2%)		1 (2%)
Thrombus	1 (2%)	1 (2%)	1 (2%)		
Vacuolization Cytoplasmic	1 (2%)				
Bilateral, Hypertrophy, Focal	3 (6%)				
Bilateral, Necrosis	1 (2%)				
Adrenal Medulla	(50)	(50)	(50)	(50)	(48)
Hyperplasia, Focal	9 (18%)	11 (22%)	8 (16%)	6 (12%)	1 (2%)
Necrosis					1 (2%)
Islets, Pancreatic	(49)	(50)	(50)	(50)	(50)
Hyperplasia	3 (6%)	4 (8%)	2 (4%)	1 (2%)	1 (2%)
Metaplasia, Hepatocyte		1 (2%)			1 (2%)
Parathyroid Gland	(44)	(39)	(45)	(44)	(46)
Hyperplasia		1 (3%)	1 (2%)	1 (2%)	
Pituitary Gland	(50)	(50)	(50)	(50)	(49)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female
Angiectasis	1 (2%)				
Cyst			1 (2%)		
Pars Distalis, Hyperplasia	17 (34%)	15 (30%)	18 (36%)	16 (32%)	20 (41%)
Pars Distalis, Hyperplasia, Atypical				1 (2%)	
Pars Distalis, Necrosis				2 (4%)	
Pars Intermedia, Hyperplasia		1 (2%)			
Rathke's Cleft, Hyperplasia			1 (2%)		
Thyroid Gland	(50)	(50)	(50)	(50)	(49)
C-cell, Hyperplasia	9 (18%)	11 (22%)	11 (22%)	3 (6%)	10 (20%)
<b>GENERAL BODY SYSTEM</b>					
Peritoneum	(0)	(1)	(0)	(0)	(0)
Inflammation, Chronic Active		1 (100%)			
<b>GENITAL SYSTEM</b>					
Clitoral Gland	(46)	(49)	(50)	(47)	(49)
Hyperplasia, Squamous		1 (2%)			
Inflammation, Chronic Active	1 (2%)				
Ovary	(50)	(50)	(50)	(49)	(50)
Atrophy	32 (64%)	38 (76%)	32 (64%)	40 (82%)	28 (56%)
Dilation				1 (2%)	
Fibrosis	1 (2%)				
Inflammation, Chronic		1 (2%)			
Pigment	1 (2%)				
Bursa, Cyst	1 (2%)	1 (2%)	4 (8%)		
Follicle, Cyst	12 (24%)	8 (16%)	7 (14%)	14 (29%)	11 (22%)
Germinal Epithelium, Cyst		2 (4%)			
Germinal Epithelium, Hyperplasia					1 (2%)
Granulosa Cell, Hyperplasia	2 (4%)		2 (4%)		1 (2%)
Interstitial Cell, Hyperplasia				1 (2%)	
Paraovarian Tissue, Cyst	3 (6%)	2 (4%)	3 (6%)		2 (4%)
Oviduct	(1)	(0)	(0)	(1)	(0)
Inflammation, Chronic Active	1 (100%)				

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

## P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female
Uterus	(50)	(50)	(50)	(49)	(50)
Adenomyosis		1 (2%)	2 (4%)		
Angiectasis	1 (2%)	1 (2%)			
Cyst, Squamous					2 (4%)
Dilation	4 (8%)	4 (8%)	3 (6%)	6 (12%)	3 (6%)
Hemorrhage		3 (6%)		3 (6%)	
Hyperplasia, Atypical	5 (10%)	10 (20%)	6 (12%)	13 (27%)	8 (16%)
Inflammation, Suppurative	5 (10%)	5 (10%)	7 (14%)	11 (22%)	7 (14%)
Inflammation, Chronic Active			1 (2%)	1 (2%)	1 (2%)
Metaplasia, Cartilagenous				1 (2%)	
Squamous Metaplasia	23 (46%)	32 (64%)	26 (52%)	26 (53%)	24 (48%)
Thrombus		2 (4%)	1 (2%)		
Ulcer		1 (2%)		2 (4%)	
Cervix, Cyst, Squamous					1 (2%)
Cervix, Hyperplasia, Atypical	1 (2%)				
Cervix, Hyperplasia, Squamous					1 (2%)
Cervix, Inflammation, Suppurative					3 (6%)
Cervix, Necrosis					1 (2%)
Endometrium, Hyperplasia, Cystic	18 (36%)	27 (54%)	23 (46%)	27 (55%)	19 (38%)
Lymphatic, Angiectasis			1 (2%)		
Myometrium, Cyst	1 (2%)				
Vagina	(50)	(49)	(48)	(44)	(48)
Hypertrophy, Stromal		1 (2%)			
Inflammation, Suppurative	2 (4%)		1 (2%)		

## HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)	(50)
Hemorrhage			1 (2%)	1 (2%)	
Hypercellularity	37 (74%)	32 (64%)	39 (78%)	42 (84%)	40 (80%)
Hypocellularity		1 (2%)			
Necrosis					1 (2%)
Lymph Node	(8)	(4)	(3)	(5)	(7)
Axillary, Hyperplasia, Plasma Cell	3 (38%)				2 (29%)
Lumbar, Hemorrhage		1 (25%)			

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female
Lumbar, Hyperplasia, Plasma Cell	3 (38%)	1 (25%)		1 (20%)	
Lumbar, Infiltration Cellular, Histiocyte	1 (13%)				
Lumbar, Pigment	1 (13%)				
Mediastinal, Hyperplasia, Plasma Cell			1 (33%)		
Mediastinal, Infiltration Cellular, Histiocyte			1 (33%)		
Lymph Node, Mandibular	(50)	(50)	(49)	(50)	(49)
Atrophy	1 (2%)	1 (2%)			2 (4%)
Hyperplasia, Plasma Cell				1 (2%)	
Lymph Node, Mesenteric	(49)	(49)	(49)	(50)	(49)
Hemorrhage				1 (2%)	
Spleen	(49)	(50)	(50)	(50)	(50)
Extramedullary Hematopoiesis	46 (94%)	44 (88%)	48 (96%)	45 (90%)	46 (92%)
Hemorrhage	1 (2%)			1 (2%)	
Infarct					1 (2%)
Inflammation, Chronic Active			1 (2%)		
Pigment	35 (71%)	39 (78%)	35 (70%)	33 (66%)	39 (78%)
White Pulp, Atrophy	9 (18%)	7 (14%)	8 (16%)	7 (14%)	8 (16%)
Thymus	(50)	(48)	(49)	(48)	(48)
Atrophy	45 (90%)	45 (94%)	46 (94%)	38 (79%)	45 (94%)
Ectopic Thyroid					1 (2%)
Ectopic Tissue, Parathyroid Gland				1 (2%)	2 (4%)
Hyperplasia, Epithelial	1 (2%)				
<b>INTEGUMENTARY SYSTEM</b>					
Mammary Gland	(50)	(50)	(50)	(50)	(50)
Galactocele	2 (4%)	1 (2%)			
Hyperplasia	14 (28%)	10 (20%)	12 (24%)	9 (18%)	15 (30%)
Hyperplasia, Adenomatous		1 (2%)			
Skin	(50)	(50)	(50)	(50)	(50)
<b>MUSCULOSKELETAL SYSTEM</b>					
Bone	(50)	(50)	(50)	(50)	(50)
Joint, Degeneration			2 (4%)		

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

## P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female
Skeletal Muscle	(1)	(1)	(0)	(1)	(2)
<b>NERVOUS SYSTEM</b>					
Brain	(50)	(50)	(50)	(50)	(49)
Gliosis				1 (2%)	
Hemorrhage	1 (2%)	1 (2%)		3 (6%)	
Necrosis	1 (2%)	2 (4%)		1 (2%)	
Cranial Nerve, Gliosis			1 (2%)		
Peripheral Nerve	(0)	(0)	(0)	(1)	(0)
<b>RESPIRATORY SYSTEM</b>					
Lung	(50)	(50)	(50)	(50)	(50)
Cyst, Squamous, Multiple				1 (2%)	
Cyst, Squamous	1 (2%)			1 (2%)	
Infiltration Cellular, Histiocyte	46 (92%)	50 (100%)	47 (94%)	48 (96%)	50 (100%)
Inflammation, Granulomatous, Focal	7 (14%)	3 (6%)	6 (12%)	6 (12%)	5 (10%)
Inflammation, Acute		1 (2%)			1 (2%)
Inflammation, Chronic Active				1 (2%)	
Squamous Metaplasia			1 (2%)		
Alveolus, Epithelium, Hyperplasia		2 (4%)	1 (2%)	1 (2%)	1 (2%)
Nose	(49)	(50)	(50)	(50)	(50)
Inflammation, Suppurative		1 (2%)			
Inflammation, Acute	2 (4%)	1 (2%)	6 (12%)	4 (8%)	6 (12%)
Inflammation, Chronic Active		1 (2%)			
Epithelium, Accumulation, Hyaline Droplet	48 (98%)	50 (100%)	49 (98%)	47 (94%)	46 (92%)
Glands, Hyperplasia			1 (2%)		
Olfactory Epithelium, Metaplasia, Respiratory		1 (2%)	1 (2%)		
Olfactory Epithelium, Metaplasia, Squamous					1 (2%)
Respiratory Epithelium, Metaplasia, Squamous			1 (2%)		
Sinus, Metaplasia, Squamous		1 (2%)			
Trachea	(50)	(50)	(50)	(50)	(50)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20712 - 03

Test Type: Chronic PN

Route: DOSED FEED

Species/Strain: RATS/HSD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Tris(Chloropropyl)phosphate

CAS Number: 13674-84-5

Date Report Requested: 09/18/2020

Time Report Requested: 11:04:53

First Dose M/F: 12/12/11 / 12/13/11

Lab: BAT

Harlan Sprague Dawley RATS FEMALE	0 ppm females	2500 ppm females	5000 ppm females	10000 ppm female	20000 ppm female
<b>SPECIAL SENSES SYSTEM</b>					
Eye	(50)	(50)	(49)	(50)	(49)
Atrophy		1 (2%)			
Inflammation, Chronic Active			1 (2%)		
Lens, Cataract		1 (2%)			
Retina, Degeneration	3 (6%)	1 (2%)	2 (4%)	2 (4%)	1 (2%)
Retina, Detachment		1 (2%)			
Harderian Gland	(50)	(50)	(49)	(50)	(50)
<b>URINARY SYSTEM</b>					
Kidney	(50)	(50)	(50)	(50)	(50)
Developmental Malformation	1 (2%)				
Ectopic Tissue, Adrenal Cortex	1 (2%)				
Infarct	3 (6%)	1 (2%)			3 (6%)
Inflammation, Suppurative	3 (6%)				8 (16%)
Inflammation, Chronic Active		1 (2%)			
Nephropathy, Chronic Progressive	41 (82%)	37 (74%)	33 (66%)	34 (68%)	36 (72%)
Pigment					1 (2%)
Pelvis, Dilation		1 (2%)	1 (2%)		
Pelvis, Inflammation, Chronic Active		2 (4%)	1 (2%)		1 (2%)
Renal Tubule, Accumulation, Hyaline Droplet	1 (2%)			1 (2%)	
Renal Tubule, Hyperplasia			1 (2%)	1 (2%)	1 (2%)
Renal Tubule, Hyperplasia, Atypical				2 (4%)	
Urinary Bladder	(50)	(50)	(50)	(49)	(50)
Inflammation, Suppurative		1 (2%)			
Inflammation, Chronic Active		2 (4%)			
Urothelium, Hyperplasia		1 (2%)			1 (2%)

\*\*\* END OF REPORT \*\*\*

a - Number of animals examined microscopically at site and number of animals with lesion